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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|------------------------|---------------------|------------------|
| 09/681,992 | 07/05/2001 | Sam Shiaw-Shiang Jiang | ASTP0013USA | 1171 |
| 7590 10/01/2004 | | | EXAMINER | |
| NAIPO (North America International Patent Office) | | | JACKSON, JENISE E | |
| P.O. Box 506 Merrifield, VA 22116 | | ART UNIT | PAPER NUMBER | |
| | | | 2131 | |

DATE MAILED: 10/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | |
|--|---|--------------------------------------|-----------------------|--|--|--|
| | | 09/681,992 | JIANG ET AL. | | | |
| | Office Action Summary | Examiner | Art Unit | | | |
| | | Jenise E Jackson | 2131 | | | |
| Period fo | The MAILING DATE of this communication approximation ap | opears on the cover sheet with the c | orrespondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | | | | | | |
| 1) | Responsive to communication(s) filed on | | | | | |
| 2a) <u></u> ☐ | This action is FINAL . 2b)⊠ Th | is action is non-final. | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposit | on of Claims | | | | | |
| 4) ☐ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Applicati | on Papers | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. | | | | | | |
| | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority ι | ınder 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| Attachmen | | _ | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date | | | | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>09172004</u> . 5) Notice of Informal Patent Application (PTO-152) Check the provided HTML Processes of the processes of | | | | | | |

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DETAILED ACTION

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Harsch(6,212,175).
- 3. As per claim 1, Harsch discloses an interleaved local suspend and reset method for a wireless communications system(see col. 3, lines 54-67, col. 4, lines 1-19), the wireless communications system comprising a first station(i.e. network device) in wireless communications with a second station(i.e. mobile station) along at least one channel(see col. 4, lines 40-51), the method comprising: the first station initiating a local suspend function for the channel(see col. 6, lines 1-21), a suspend point determined by a first sequence number (SN); prior to a resume command to terminate the local suspend function, initiating a reset procedure for the channel(see col. 12, lines 59-67, col. 13, lines 1-36); in response to the reset procedure, setting the first SN of the suspend point equal to a default value; and awaiting the resume command for the channel to terminate the local suspend function(see col. 13, lines 4-67, col. 14, lines 1-6).
- 4. As per claim 2, Harsch discloses wherein setting the first SN of the suspend point equal to the default value causes the first station to thereafter immediately halt transmission of layer 2

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protocol data units (PDUs) to the second station along the channel while the local suspend function for the channel is active(see col. 12, lines 59-67, col. 13, lines 63-67, col. 14, lines 1-48).

- 5. As per claim 3, Harsch discloses wherein the suspend point comprises a hyper-frame number (HFN) associated with the SN of the suspend point, and in response to the reset procedure, the HFN is set equal to a transmitting HFN of the first station(see col. 12, lines 59-67, col. 13, lines 1-21).
- 6. As per claim 4, Harsch discloses wherein a prior ciphering configuration for the channel is used before the resume command, and a new ciphering configuration is used for the channel after the resume command(see col. 12, lines 29-65).
- 7. As per claim 5, Harsch discloses an interleaved local suspend and reset method for a wireless communications system(see col. 3, lines 54-67, col. 4, lines 1-19), the wireless communications system comprising a first station in wireless communications with a second station along at least one channel(see col. 4, lines 40-51), the method comprising: the first station initiating a local suspend function for the channel(see col. 6, lines 1-21), a suspend point determined by a first sequence number (SN) and a first hyper-frame number (HFN) to form a first HFN/SN pair(see col. 12, lines 59-67, col. 13, lines 1-21); prior to a resume command to terminate the local suspend function, initiating a reset procedure for the channel; after the reset procedure, and prior to terminating the local suspend function, the first station transmitting along the channel to the second station no layer 2 protocol data units (PDUs) having associated HFN/SN pairs that are sequentially after the first HFN/SN pair; and awaiting the resume

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command for the channel to terminate the local suspend function(see col. 12, lines 59-67, col. 13, lines 1-36, col. 14, lines 1-6).

- 8. As per claim 6, Harsch discloses wherein a prior ciphering configuration for the channel is used before the resume command, and a new ciphering configuration is used for the channel after the resume command(see col. 12, lines 29-65).
- 9. As per claim 7, Harsch discloses wherein after the reset procedure, and prior to terminating the local suspend function, the first station transmits along the channel to the second station layer 2 PDUs having associated HFN/SN pairs that are sequentially before the first HFN/SN pair(see col. 12, lines 59-67, col. 13, lines 1-36, col. 14, lines 1-6).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenise E Jackson whose telephone number is (703) 306-0426. The examiner can normally be reached on M-Th (6:00 a.m. - 3:30 p.m.) alternate Friday's.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (703) 305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 17, 2004

AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100